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QUESTION 1

How does a least privilege resource access model contribute to cloud security?

- A. Google is responsible for determining access to cloud resources.
- B. Employees may only access on-premises software with special permission.
- C. Only managers and other senior employees have cloud resource access.
- D. Employees only have access to the cloud resources necessary for their job.

Correct Answer: D

Explanation: This is the definition of a least privilege model. A supporting principle that helps organizations achieve these goals is the principle of least privilege. The principle of least privilege addresses access control and states that an individual should have only the minimum access privileges necessary to perform a specific job or task and nothing more

QUESTION 2

Which of the following NIST Cloud characteristics uses the business model of shared re- sources in a cloud environment?

- A. Elasticity
- B. Availability
- C. Broad Network Access
- D. Multi-Tenancy

Correct Answer: D

In cloud computing, multitenancy means that multiple customers of a cloud vendor are using the same computing resources. Even though they share resources, cloud customers aren't aware of each other, and their data is kept totally separate. Multi-tenancy is a crucial component of cloud computing; without it, cloud services would be far less practical. Multitenant architecture is a feature in many types of public cloud computing, including IaaS, PaaS, SaaS, containers, and serverless computing.

QUESTION 3

certain devices for cracks, rust, etc. Some of these issues are difficult to identify for a human and your company has seen increasing customer complaints - the customer has paid for an inspection and the field agent said there was no problem, but it later turned out there actually was. The team has come up with a proposal to engage AI to identify issues. On evaluating the existing system, it is seen that the mobile phone network connection is not good or consistent. What solution can work for them?

- A. Use AutoML Vision Edge models.
- B. Use the Rust programming language instead of Python to identify issues like rust.

- C. Use Cloud TPUs which will be able to do the analysis faster on the cloud. Thus re-sponses also will be fast.
- D. Use TensorFlow to create custom models and deploy it as TensorFlow Lite mod-els.

Correct Answer: A

Explanation: AutoML Vision Edge model can be deployed to one of several types of edge devices, such as mobile phones, ARM-based devices, and the Coral Edge TPU <https://cloud.google.com/vision/automl/docs/edge-quickstart>

QUESTION 4

An IoT platform is providing services to home security systems. They have more than a million customers, each with many home devices. Burglaries or child safety issues are concerns that the clients customers. Therefore, the platform has to respond very quickly in near real time. What could be a typical data pipeline used to support this platform on Google Cloud?

- A. Cloud Pub/Sub, Cloud Dataflow, Data Studio
- B. Cloud Functions, Cloud Dataproc, Looker
- C. Cloud Pub/Sub, Cloud Dataflow, BigQuery
- D. Cloud Functions, Cloud Dataproc, BigQuery

Correct Answer: A

=> Cloud Pub/Sub- Cloud Pub/Sub is the best to be the end-point for ingesting large amounts of data. It will grow as required, can stream data to downstream systems, and can also work with intermittently available backends. => Cloud

Dataflow- supports streaming data and therefore is an appropriate option for processing the data that is ingested.

=> BigQuery- BigQuery also supports streaming data and its possible to do real time ana- lytics on it.

=> DataStudio- DataStudio and Looker are for visualization. They don\\'t have any in-built analysis.

=> Cloud Functions- Cloud Functions is a useful serverless endpoint. However, Pub/Sub is better in this case because it can also retain messages for a set period if it was not possi- ble to deliver it first time.

=>Cloud Dataproc- Cloud Dataproc is used for Hadoop/Spark workloads and won\\'t be a good fit here.

QUESTION 5

While on-premise, an enterprise had multiple teams, each with its own analytics data store. Attempts to converge the storage for centralized, company-wide analysis failed because of speed and scaling issues. What would be the preferred destination architecture on Google Cloud?

- A. Migrate to Bigtable which provides high throughput reads and writes.
- B. Migrate to Cloud Spanner as a globally scalable SQL database.
- C. Migrate to BigQuery as a central data warehouse.
- D. Migrate to Cloud SQL which supports multiple databases like MySQL, PostgreSQL, and SQL Server - all of the

customer\\'s SQL databases can be accommodated here.

Correct Answer: C

Explanation: BigQuery is the data warehousing option on Google Cloud. Since the source data has already been used for analysis, it should easily fit the BigQuery structure too.

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